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Docket No. 48235 (71699)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

JUL 16 2002

APPLICANT: R. L. Haganir et al.

SERIAL NO. 09/294,298

EXAMINER: P. Nolan

TECH CENTER 1600/290

FILED: April 19, 1999

GROUP: 1644

FOR: SIGNAL TRANSDUCING SYNAPTIC MOLECULES AND USES
THEREOF

Assistant Commissioner of Patents
Washington, DC 20231

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Sir:

RESPONSE TO OFFICE ACTION

Applicants are in receipt of the Ex Parte Quayle Office Action dated March 27, 2002, in connection with the above-identified application. Kindly amend the application as follows.

IN THE SPECIFICATION:

Please amend the paragraph appearing at page 56, lines 9-29, such that it reads:

DI
The yeast two-hybrid system was utilized to find protein(s) that interact with the third PDZ domain of SAP102. The third PDZ domain (amino acids 367 to 452) was generated by PCR using a pair of oligonucleotides with restriction digestion sites for *Sal* I and *Bgl* II sense (5'-ACGCGTCGACCAGAGAGCCCCGCAAG-3' (SEQ ID NO. 18)) and antisense (5'-GAAGATCTAGGTCTATACTGGGCCAC-3' (SEQ ID NO. 19)) and was subcloned into the pPC97 yeast vector containing the GAL4 DNA binding domain (Chevray, P. M., and Nathans, D. (1992) *Proc. Natl. Acad. Sci. USA.* 89:5789). The bait plasmid was then transformed into Y190 yeast cells (Durfee, T., et al. (1993) *Genes Dev.* 7:555; Staudinger, J., et al. (1995) *J. Cell Biol.* 128:263) and a two-hybrid screening was performed using a random-primed cDNA library from rat hippocampus subcloned into the *Sal* I/*Not* I site of the pPC86 vector containing the GAL 4 transcription activation domain (Brakeman, P. R., et al. (1997) *Nature.* 386:284; Dong et al., *supra*). Positive clones were selected on plates lacking leucine, tryptophan, and histidine with